Yangtze river energy storage treatment

The reasonable optimization of energy structures and improvement of energy utilization efficiency are the inevitable way to achieve new progress in ecological civilization construction. The Yangtze River Economic Belt, as the leading demonstration area of China"s ecological civilization construction, is of great significance to take the lead in clarifying its ...

PDF | On Feb 1, 2022, Hongtao Wang and others published Energy Efficiency and Influencing Factors of Wastewater Treatment Plants in Yangtze River Economic Belt | Find, read and cite all the ...

Water transportation has always occupied a large proportion of China"s transportation and has become the key to China"s economic development. Water transportation is called "green transportation" in the industry due to the advantages of low transportation cost, high safety factor, and large capacity. However, water transportation has caused a great impact on ...

Accelerating the Development of New Energy Storage! The Yangtze River Delta Region Solicits Local Standard Projects for Future Industries in 2024" The Shanghai Municipal Commission of Economy and Information Technology, Jiangsu Provincial Department of Industry and Information Technology, Zhejiang Provincial Department of Economy and Information ...

The Yangtze River Basin (YRB) is the main wastewater-generating economic zone in China, with domestic discharge accounting for approximately 35% of the national annual total in recent years [4].For this reason, domestic efforts to reduce China"s aquatic pollutants depend heavily on the trajectory of wastewater discharge relative to the YRB.

Under integrated ecological and green development in the Yangtze River Delta, the regional ecology is adversely affected by ineffective synergistic governance. Regional environmental governance is a collaborative process involving multiple stakeholders and mutual engagement, with each participant pursuing their interests and common goals simultaneously. ...

China is an extremely sensitive nation severely impacted by global climate change, with frequent floods in the Yangtze River Economic Zone causing severe socioeconomic losses and ecological and environmental issues. To investigate the potential industry-related economic losses and comprehensive hazards of flooding in the Yangtze River Economic Zone, ...

As an important agricultural production area in China, the Yangtze River Economic Belt has a large amount of water resources and rich types of energy. Water and energy resources are the supporting basis of food production, and the production and use of energy also need to consume a large amount of water resources. The three affect each other and are ...

With the rapid development of China"s industrial sector, solid waste emissions have exploded along with the

mismatch between treatment efficiency and economic development becoming increasingly prominent. The Yangtze River Economic Belt (YREB) is one of the most important core areas for the country to participate in economic globalization. Its expansive area ...

The Yangtze River Economic Belt, as one of the three important supporting belts in China, accounts for 21.4% of the country"s total area, covering 11 provinces and regions across the three major sectors of east, central, and west (see Figure 1) 2022, its economic aggregate accounted for 46.5% of the country"s total weight, making it a key battleground and economic ...

Figure 5 shows the N use efficiency and N loss (storage) in the Yangtze River Economic Belt. Since the reform and opening up of China in 1978, N input into the system has been increasing, while ...

This study proposes building a modern energy system in the Yangtze River Delta based on local characteristics. The primary features, key issues, and overall integration of the system are...

Taking the current limitations of the development of large-scale energy storage technology into account, pumped storage plays a dominant role in energy storage. Combining the rich water resources in the upper reaches of the Yangtze River and the geographical advantages of hills, it is feasible to explore a joint development mode of wind power ...

The results show that under the baseline scenario, the energy demand and carbon emissions in the Yangtze River Delta region will continue to grow; under the condition of fully tapping the energy ...

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With priorities to reach a carbon emission peak and integrated development involving ecological demonstration, a systematic evaluation on the energy efficiency and internal discrepancies of wastewater treatment plants in the Yangtze River Delta region is needed. In this study, a slacks-based measure data envelopment analysis model was applied to quantify the relative energy ...

Serving as a crucial part of the Yangtze River Basin (YRB)"s flood control system, Flood Detention Areas (FDAs) are vital in mitigating large-scale floods. Urbanization has led to the development of urban FDAs, but significant losses could ensue if these FDAs are activated. With improved reservoirs and embankments, flood pressure in the middle reaches has lessened, ...

Downloadable (with restrictions)! Using the floor area in the wastewater treatment sector to deploy distributed renewable energy is economical and can assist in industrial decarbonisation; however, little attention has been paid to study of the ideal capacity. This study proposes a grid-connected wind-solar-storage system scheme for retrofitting existing wastewater treatment plants ...

Ecosystem service assessments are crucial for sustainable water area management. Previous studies and actions on waterfront area management often emphasized merely the saving and use of water resources per se, ignoring the safeguarding of hydrological source ecosystems and assurance of sustainable provision capacity of water supplies. Using ...

Temperature plays a critical role in the efficiency and stability of industrial wastewater treatment plants (WWTPs). This study focuses on the effects of temperature on activated sludge (AS) communities within the A2O process of 19 industrial WWTPs in the Yangtze River Delta, a key industrial region in China. The investigation aims to understand how ...

Total phosphorus (TP) and total nitrogen (TN) represent the primary water quality parameters indicative of the eutrophication status in the mainstream of the Yangtze River. Nowadays, satellite remote sensing offers an economical and efficient method for monitoring the water environment with a broad geographical scope, while single satellite and traditional ...

The Yangtze River Economic Belt, relying on the golden waterway of the Yangtze River, serves not only as a vital industrial and urban stronghold in China but also bears the significant responsibility of the Yangtze River"s major conservation efforts. The implementation of the main functional zones within the economic belt can provide regional synergies for ...

As a typical climate that occurs in the Yangtze-Huaihe River basin of China with a size of 500,000 km2, plum rain can reduce the photovoltaic (PV) potential by lowering the surface irradiance (SI ...

The cold spots (P < 0.001) were mainly located in the Tibetan Plateau, the Chengdu-Chongqing City Group, the Yangtze River Middle Reaches Megalopolis, and the Yangtze River Delta Urban Agglomerations, and the hot spots (P < 0.001) were scatteredly distributed in the upper reaches while concentrated in the middle and lower reaches. The "high ...

The Yangtze River has been regarded as the birthplace of China and an important symbol of its rich cultural legacy. Yangtze River"s Great Protection Strategy (YRGPS) has resulted in various changes in the economy, society, and environment of the Yangtze River basin. However, its impact on carbon reduction and emission reduction is yet to be discussed. ...

The sediment load in the Yangtze River downstream of the Three Gorges Dam (TGD) has substantially declined in recent decades. The decrease is more profound below the TGD, e.g., a 97% decrease at Yichang, compared with that at the delta apex, 1200 km downstream, e.g., a 75% decrease, implying along-river sediment recovery. Two large river ...

Based on the characteristics of large differences among different river basins in China, this paper not only analyzes the efficiency of wastewater treatment of 30 provinces in ...

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Five severe oods occurred in the Yangtze River Basin, China, between July and August 2020, and the Three Gorges Reservoir (TGR) located in the middle Yangtze River experienced the ...

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